



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Tidhar Dari Shalon
Patrick O. Brown

Serial No.: 09/356,322

Filing Date: November 24, 1998

For: SUBSTRATES COMPRISING
POLYNUCLEOTIDE MICROARRAYS

Confirmation No.: 7679

Examiner: Betty J. Forman

Group Art Unit: 1634

Attorney Docket No.: 12665.0009.CNUS01

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached PTO-1449 form be considered by the Examiner and made of record. Copies of the listed non-patent documents C115-C144 required by 37 C.F.R. § 1.98(a)(2) were previously filed in related U.S. Patent Application Serial No. 08/688,488 and are not enclosed herewith, whereas copies of the foreign patent documents B27-B43 are enclosed herewith.

In accordance with 37 C.F.R. § 1.97(g), this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

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Applicants have become aware of the listed documents as the result of litigation involving a patent application related to the present application.

This Supplemental Information Disclosure Statement is filed concurrently with a Request for Continued Examination (RCE). The Commissioner is authorized to deduct the fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 from Howrey LLP Deposit Account No. 08-3038/12665.0009.CNUS01. Should any additional fees be required for any reason in connection with this document, the Commissioner is authorized to deduct such fees from the same deposit account.

Applicants respectfully request that the listed documents be made of record in the present application.

Respectfully submitted,



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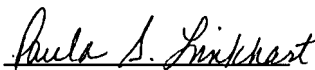
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Paula S. Linkhart

Form PTO-1449 (modified)

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Atty. Docket No.

12665.0009.CNUS01

Serial No.

09/356,322

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Tidhar Dari Shalon

Patrick O. Brown

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U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A84	6,013,449	01/11/00	Hacia et al.			
	A85	6,045,996	04/04/00	Cronin et al.			
	A86	5,451,683	09/19/95	Barrett et al.			
	A87	6,171,843	01/09/01	Bandman et al.			
	A88	4,877,745	10/31/89	Hayes et al.			
	A89	4,728,502	03/01/88	Hamill			
	A90	3,849,137	11/19/74	Barzynski et al.			
	A91	4,269,933	05/26/81	Pazos			
	A92	4,516,833	05/14/85	Fusek			
	A93	4,517,338	05/14/85	Urdea et al.			
	A94	4,537,861	08/27/85	Elings et al.			
	A95	4,631,211	12/23/86	Houghten			
	A96	4,713,326	12/15/87	Dattagupta et al.			
	A97	4,762,881	08/09/88	Kauer			
	A98	4,811,062	03/07/89	Tabata et al.			
	A99	4,846,552	07/11/89	Vekdkamp et al.			
	A100	4,946,942	08/07/90	Fuller et al.			
	A101	4,981,985	01/01/91	Kaplan et al.			
	A102	4,984,100	01/08/91	Takayama et al.			
	A103	5,258,506	11/02/93	Urdea et al.			
	A104	5,795,716	08/18/98	Chee			

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EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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Form PTO-1449 (modified)		Atty. Docket No. 12665.0009.CNUS01	Serial No. 09/356,322
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Tidhar Dari Shalon Patrick O. Brown	
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Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B27	WO 86/06487	11/6/86	WIPO			
	B28	WO 85/01051	03/14/85	WIPO			
	B29	EP 0130739A2	01/85	Europe			
	B30	EP 0142299A2	05/22/85	Europe			
	B31	EP 0194132A2	09/10/86	Europe			
	B32	EP 0228075A2	07/08/87	Europe			
	B33	EP0237362A1	09/16/87	Europe			
	B34	EP 0238332A2	09/23/87	Europe			
	B35	EP 0268237A2	05/25/88	Europe			
	B36	EP 0328256A1	08/16/89	Europe			
	B37	EP 0392546A2	10/17/90	Europe			
	B38	CA 1,284,931	06/18/91	Canada			
	B39	UK 2156074A	10/02/85	United Kingdom			
	B40	EP 0046083A2	02/17/82	Europe			
	B41	EP 0103197A1	03/21/84	Europe			
	B42	UK 2196476A	04/27/88	United Kingdom			
	B43	WO 90/04652	05/03/90	WIPO			

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Exam. Init.	Ref. Des.	Citation
	C115	Southern et al., "Molecular Interactions on Microarrays," Nature Genetics Supplement 21: 5-9 (1999)

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	C116	Lipshute et al., "Using Oligonucleotide Probe Arrays to Access Genetic Diversity," <i>BioTechniques</i> 19(3): 442-447 (1995)
	C117	Lockhart et al., "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays," <i>Nature Biotechnology</i> 14: 1675-1680 (1996)
	C118	Schechtman, "Isolation of Telomere DNA from <i>Neurospora crassa</i> ," <i>Molecular and Cellular Biology</i> 7(9): 3168-3177 (1987)
	C119	Rosenbluth et al., "Pairing for Recombination in LGV of <i>Caenorhabditis elegans</i> : A Model Based on Recombination in Deficiency Heterozygotes," <i>Genetics</i> 124: 615-625 (1990)
	C120	Clark et al., "Analysis of Lethal Mutations Induced in a Mutator Strain that Activates Transposable Elements in <i>Caenorhabditis elegans</i> ," <i>Genome</i> 33: 109-114 (1990)
	C121	Pritchard et al., "Nucleotide Sequence of the Mitochondrial Genome of <i>Paramecium</i> ," <i>Nucleic Acids Research</i> 18(1): 173-180 (1990)
	C122	Adams et al., "Complementary DNA Sequencing: Expressed Sequence Tags and Human Genome Project," <i>Science</i> 252: 1651-1656 (1991)
	C123	Hedgecock et al., "The <i>unc-5</i> , <i>unc-6</i> , and <i>unc-40</i> Genes Guide Circumferential Migrations of Pioneer Axons and Mesodermal Cells on the Epidermis in <i>C. elegans</i> ," <i>Neuron</i> 2: 61-85 (1990)
	C124	Broach, "Genes of <i>Saccharomyces cerevisiae</i> ," <i>The Molecular Biology of the Yeast Saccharomyces</i> , Cold Spring Harbor Laboratory, pp. 653-657 (1981)
	C125	Sundberg et al., "Spatially-Addressable Immobilization of Macromolecules on Solid Supports," <i>J. Am. Chem. Soc.</i> 117(49): 12050-12057 (1995)
	C126	Amy Savage Blawas, "Photopatterning of Protein Features Using Caged-Biotin-Bovine Serum Albumin," Ph.D. Dissertation, Department of Biomedical Engineering, Duke University (1998)
	C127	Forman et al., "Thermodynamics of Duplex Formation and Mismatch Discrimination on Photolithographically Synthesized Oligonucleotide Arrays," <i>ACS Symposium Series, Molecular Modeling of Nucleic Acids</i> 682: 206-228 (1998)
	C128	Masks et al., "Oligonucleotide Hybridisations on Glass Supports: a Novel Linker for Oligonucleotide Synthesis and Hybridisation Properties of Oligonucleotides Synthesized in situ," <i>Nucleic Acids Research</i> 20(7): 1679-1684 (1992)
	C129	Marshall et al., "DNA Chips: an Array of Possibilities," <i>Nature Biotechnology</i> 16: 27-31 (1998)
	C130	Blawas et al., "Step-and-Repeat Photopatterning of Protein Features Using Caged-Biotin-BSA: Characterization and Resolution," <i>Langmuir</i> 14: 4243-4250 (1998)
	C131	Bannwarth et al., "Laboratory Methods, A system for the Simultaneous Chemical Synthesis of Different DNA fragments on Solid Support," <i>DNA</i> 5(5): 413-419 (1986)
	C132	Geysen et al., "Strategies for Epitope Analysis Using Peptide Synthesis," <i>J. Immunological Methods</i> 102: 259-274 (1987)

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	C133	Chu et al., "Microarray-Based Immunoassays," Immunochemical Technology for Environmental Applications, American Cancer Society, pp. 170-184 (1997)
	C134	Meier-Ewert et al., "An Automated Approach to Generating Expressed Sequence Catalogues," Nature 361: 375-376 (1993)
	C135	Nizetic et al., "Construction, Arraying, and High-Density Screening of Large Insert Libraries of Human Chromosomes X and 21: Their Potential Use as Reference Libraries," Proc. Natl. Acad. Sci. USA 88: 3233-3237 (1991)
	C136	Raoult et al., "The line Blot: an Immunoassay for Monoclonal and Other Antibodies, Its Application to the Serotyping of Gram-Negative Bacteria," J. Immunological Methods 125: 57-65 (1989)
	C137	Gray et al., "Exploiting Chemical Libraries, Structure, and Genomics in the Search for Kinase Inhibitors," Science 281: 533-538 (1998)
	C138	Cronin et al., "Cystic Fibrosis Mutation Detection by Hybridization to Light-Generated DNA Probe Arrays," Human Mutation 7: 244-255 (1996)
	C139	Saizieu et al., "Bacterial Transcript Imaging by Hybridization of Total RNA to Oligonucleotide Arrays," Nature Biotechnology 16: 45-48 (1998)
	C140	Hacia et al., "Detection of Heterozygous Mutations in BRCA1 Using High Density Oligonucleotide Arrays and Two-Color Fluorescence Analysis," Nature Genetics 14: 441-447 (1996)
	C141	Wang et al., "Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide Polymorphisms in the Human Genome," Science 280: 1077-1082 (1998)
	C142	Greenberg et al., "Cleavage of Oligonucleotides from Solid-Phase Supports Using o-Nitrobenzyl Photochemistry," J. Org. Chem. 59: 746-753 (1994)
	C143	Yoo et al., "Synthesis of Oligonucleotides Containing 3'-Alkyl Carboxylic Acids Using Universal, Photolabile Solid Phase Synthesis Supports," J. Org. Chem. 60: 3358-3364 (1995)
	C144	Zammattao et al., "Comparison between Different Strategies of Covalent Attachment of DNA to Glass Surfaces to Build DNA Microarrays," Analytical Biochemistry 280: 143-150 (2000)

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